

AUTHOR INDEX

- Abdel-Baky, S. A., 311
Adelstein, E., 187
Arai, Y., 255
- Baba, T., 255
Banerji, N., 321
Barbero, G. J., 187
Beau, J.-M., 157
Bednarski, M., 243
Bertozzi, C., 243
Blanc-Muesser, M., 129
Brunner, H., 61
- Cesáro, A., 227
Cherniak, R., 263
Chernyak, A. Ya., 303
Coleman, A. W., 287
- Das, A. K., 321
Driguez, H., 129
Dubois, E., 157
- El Sadek, M., 311
El Socary, N. N., 311
- Fenyvesi, E., 71
Fernandez Molina, L. E., 221
Fukuda, M., 235
- Garg, H. G., 209
Gayer, D. A., 187
Geijtenbeek, T., 19
Gettins, P., 81
Glazkova, V. E., 221
Grimmecke, H.-D., 329
- Heikkilä, H., 45
Hizukuri, S., 235
Hoffmann, R. A., 19
Horáková, I., 137
Horne, A. P., 81
Huang, D.-b., 11
- Isakov, V. V., 221
- Jarý, J., 137
Jeffrey, G. A., 11
Jiang, H., 271
Juliano, B. O., 235
- Kajtár, M., 71
Kamerling, J. P., 19
Kefurt, K., 137
Kefurtová, Z., 137
Kivikoski, J., 45, 53
Knirel, Yu. A., 329
Kobayashi, S., 255
Kochetkov, N. K., 109, 303
Koh, L. L., 271
Koizumi, K., 1
Konig, W. A., 61
Kononov, L. O., 303
Krishna, P. R., 303
- Landrum, D. C., 187
Lee, C.-K., 271
Lehmann, J., 129
Levinsky, A. B., 303
Lindberg, B., 99
Lindberg, J., 99
Ling, C.-C., 287
Lipkind, G. M., 109
Lippay, E. W., 209
- Mackie, W., 147
Marek, M., 137
Mawhinney, T. P., 187
Mikheyskaya, L. V., 221
Miocque, M., 287
Miyamoto, Y., 299
Molchanova, V. I., 221
Morris, L. C., 263
Murugesan, G., 235
- Navarini, L., 227
Neame, P. J., 209
Neira, S., 169
Nifant'ev, N. E., 109
Nurmi, J., 53
- Ogawa, S., 279, 299
Ovodov, Yu. S., 221
Ovodova, R. G., 221
- Pitha, J., 99
Pitkänen, I., 45
- Rao, A. V. R., 303
Rao, C. T., 99
Rashid, A., 147
Rosner, H., 329
Ross-Murphy, S. B., 227

Sabesan, S., 169
Sen, Sr., A. K., 321
Sharma, G. V. M., 303
Shashkov, A. S., 109, 329
Shibata, Y., 279
Smith, P. R., 293
Steck, J., 129
Suzuki, M., 71
Szejtli, J., 71

Takano, T., 255
Tanaka, M., 1
Tanimoto, T., 1
Thorn, W., 61
Thornalley, P. J., 293
Turner, S. H., 263

Uchida, C., 279

Valkonen, J., 45, 53
Vetter, D., 61
Vignon, M. R., 321
Vikmon, M., 71
Vliegthart, J. F. G., 19

Yuno, T., 1

Zhou, J., 255

SUBJECT INDEX

- Alpha-amylase, photolabile derivatives of maltose and maltotriose as ligands for the affinity labelling of the maltodextrin-binding site in porcine pancreatic, 129
- Alternative synthesis and enzyme-inhibitory activity of methyl 1'-epiacarviosin and its 6-hydroxy analog, 279
- Arabinoxylan oligosaccharides containing two or three branched xylose residues, ¹H-n.m.r. study of enzymically generated wheat-endosperm, 19
- Arylation of 4,6-*O*-benzylidene-3-*O*-*tert*-butyldimethylsilyl-1-tributylstannyl- β -D-glucal, a stereoselective route to the basic skeleton of papulacandins and chaetiacandin by palladium-mediated, 157
- 5-Azido-3-*O*-benzoyl-6-*O*-*tert*-butyldiphenylsilyl-5-deoxy-1,2-*O*-isopropylidene- β -L-talofuranose, crystal and molecular structure of, 271
- 2-Azidoethyl glycosides of potential use for the preparation of neoglycoconjugates, synthesis of, 303
- Azo dyes containing naphthalene nuclei, induced circular dichroism spectra of complexes of cyclomalto-oligosaccharides and, 71
- Bioglycan-immunomodulator (mytilan) isolated from the mussel *Crenomytilus grayanus*, structure of a, 221
- Boswellia serrata*, isolation and structure of 4-*O*-methyl-glucuronooarabinogalactan from, 321
- Cell-surface receptors for C-glycosyl compounds, 243
- Cryptococcus neoformans* serotype D, glucuronoxylomannan of: structural analysis by gas-liquid chromatography-mass spectrometry and by ¹³C-n.m.r. spectroscopy, 263
- Crystal and molecular structure of 5-azido-3-*O*-benzoyl-6-*O*-*tert*-butyldiphenylsilyl-5-deoxy-1,2-*O*-isopropylidene- β -L-talofuranose, 271
- Crystal structure of D-threitol at 119 K and 298 K, 11
- Crystal structure of lactitol (4-*O*- β -D-galactopyranosyl-D-glucitol), 45
- Crystal structure of lactitol (4-*O*- β -D-galactopyranosyl-D-glucitol) dihydrate, 53
- Cyclodextrin-glucanoyltransferase, enzymatic synthesis of linear and branched gluco-oligosaccharides using, 61
- Cyclomaltohexaose, a convenient route to poly-substituted derivatives by multiple tritylation, 287
- Cyclomaltohexaoses and cyclomaltoheptaoses, di-*O*-triphenylmethyl (trityl-), preparation of and characterisation of three positional isomers by the "hex-5-enose degradation", 1
- Cyclomalto-oligosaccharides and azo dyes containing naphthalene nuclei, induced circular dichroism spectra of complexes of, 71
- Cyclomalto-oligosaccharides (cyclodextrins), distribution of substituents in *O*-(2-hydroxypropyl) derivatives of, 99
- Deacetylation of derivatives of 1,2-*O*-isopropylidene- α -D-hexofuranoses, enzymic, 137
- N*,-(1-Deoxy-D-fructos-1-yl)hippuryl-lysine, preparation and characterisation of, 293
- Disaccharide-glycosides related to carageenans, stereoselective synthesis of, 147
- Distribution of substituents in *O*-(2-hydroxypropyl) derivatives of cyclomalto-oligosaccharides (cyclodextrins), 99
- Ehlers-Danlos syndrome, proteoglycans from human burn hypertrophic scar in, 209
- Enzymatic synthesis of linear and branched gluco-oligosaccharides, using cyclodextrin-glucanoyltransferase, 61
- Enzyme expressed by the *Pseudomonas saccharophila* maltotetraohydrolase gene (*mta*) in *Escherichia coli*, properties of, 255
- Enzyme-inhibitory activity of methyl 1'-epiacarviosin and its 6-hydroxy analog, alternative synthesis and, 279
- Enzymic deacetylation of derivatives of 1,2-*O*-isopropylidene- α -D-hexofuranoses, 137
- Epiacarviosin and its 6-hydroxy analog, alternative synthesis and enzyme-inhibitory activity of methyl 1', 279
- Escherichia coli*, properties of the enzyme expressed by the *Pseudomonas saccharophila* maltotetraohydrolase gene (*mta*) in, 255
- Exopolysaccharides from *Rhizobium meliloti* YE-2 grown under different osmolarity conditions, viscoelastic properties, 227
- 4-*O*- β -D-Galactopyranosyl-D-glucitol (lactitol), crystal structure of, 45
- 4-*O*- β -D-Galactopyranosyl-D-glucitol (lactitol) dihydrate, crystal structure of, 53
- Gluco-oligosaccharides, enzymatic synthesis of linear and branched, using cyclodextrin-glucanoyltransferase, 61

- Glucuronoxylomannan of *Cryptococcus neoformans* serotype D: structural analysis by gas-liquid chromatography-mass spectrometry and by ^{13}C -n.m.r. spectroscopy, 263
- Glycoproteins, structural analysis of monosulfated side-chain oligosaccharides isolated from human tracheobronchial mucous, 187
- Glycosides of potential use for the preparation of neoglycoconjugates, synthesis of 2-azidoethyl, 303
- C-Glycosyl compounds bind to receptors on the surface of *Escherichia coli* cells and can target proteins to the organism, 243
- Glycosyl derivatives of methyl α -L-rhamnopyranoside, synthesis of di-O-, 109
- Glycosyl phosphates and azides, synthesis of, 169
- Heparin, two series of oligosaccharides derived from porcine intestinal mucosal, by degradation with heparinase, one- and two-dimensional ^{13}C -n.m.r. characterization of, 81
- Hippuryl-lysine, preparation and characterisation of N_{ϵ} -(1-deoxy-D-fructos-1-yl)-, 293
- Human burn hypertrophic scar, proteoglycans from, 209
- Hyaluronic acid and a (1 \rightarrow 4)- β -D-xylan, structural elucidation of two extracellular polysaccharides of *Pasteurella multocida* as, 329
- O-(2-Hydroxypropyl) derivatives of cyclomalto-oligosaccharides (cyclodextrins), distribution of substituents in, 99
- Induced circular dichroism spectra of complexes of cyclomalto-oligosaccharides and azo dyes containing naphthalene nuclei, 71
- Isolation and structure of a 4-O-methyl-glucuronarabinogalactan from *Boswellia serrata*, 321
- 1,2-O-Isopropylidene- α -D-hexofuranoses, enzymic deacetylation of derivatives of, 137
- Lactitol (4-O- β -D-galactopyranosyl-D-glucitol), crystal structure of, 45
- Lactitol (4-O- β -D-galactopyranosyl-D-glucitol) dihydrate, crystal structure of, 45
- Maltose and maltotriose, photolabile derivatives as ligands for the affinity labelling of the maltodextrin-binding site in porcine pancreatic α -amylase, 129
- Maltotetrahydrolase gene (*mta*), properties of the enzyme expressed in *Escherichia coli* by the *Pseudomonas saccharophila*, 255
- Methyl 3-O-(3,6-anhydro- β -D-galactopyranosyl)- α -D-galactopyranoside and methyl 3,6-anhydro-4-O- β -D-galactopyranoside, efficient and stereoselective synthesis of, 147
- 4-O-Methyl-glucuronarabinogalactan from *Boswellia serrata*, isolation and structure of a, 321
- Methyl α -L-rhamnopyranoside, synthesis of di-O-glycosyl derivatives of, 109
- Multiple tritylation, a convenient route to polysubstituted derivatives of cyclomaltohexaose, 287
- Mytilan isolated from the mussel *Crenomytilus grayanus*, structure of a bioglycan-immunomodulator, 221
- Neoglycoconjugates, synthesis of 2-azidoethyl glycosides of potential use for the preparation of, 303
- ^{13}C -N.m.r. characterization, one- and two-dimensional, of two series of oligosaccharides derived from porcine intestinal mucosal heparin by degradation with heparinase, 81
- ^1H -N.m.r. study of enzymically generated wheat-endosperm arabinoxylan oligosaccharides containing two to three branched xylose residues, 19
- Oligosaccharides containing two or three branched xylose residues, ^1H -n.m.r. study of enzymically generated wheat-endosperm arabinoxylan, 19
- Oligosaccharides isolated from human tracheobronchial mucous glycoproteins, structural analysis of monosulfated side-chain, 187
- Papulacandins and chaetiacandin, a stereoselective route to their basic skeleton by a palladium-mediated arylation of 4,6-O-benzylidene-3-O-*tert*-butyldimethylsilyl-1-tributylstannyl-D-glucal, 157
- Pasteurella multocida* extracellular polysaccharides, structural elucidation as hyaluronic acid and a (1 \rightarrow 4)- β -D-xylan, 329
- Phosphates and azides, synthesis of glycosyl, 169
- Photolabile derivatives of maltose and maltotriose as ligands for the affinity labelling of the maltodextrin-binding site in porcine pancreatic α -amylase, 129
- Polysaccharides of *Pasteurella multocida*, structural elucidation of hyaluronic acid and a (1 \rightarrow 4)- β -D-xylan as extracellular, 329
- Preparation and characterisation of N_{ϵ} -(1-deoxy-D-fructos-1-yl)hippuryl-lysine, 293
- Proteoglycans from a patient with Ehlers-Danlos syndrome, 209
- Proteoglycans, from human burn hypertrophic scar, isolation and characterization of, 209
- 3-Pyrrolicarbohydrazide, synthesis and reactions of 2-methyl-5-(D-arabino-tetrahydroxybutyl), 311

Receptors of the surface of *Escherichia coli* cells and can target proteins to the organism, C-glycosyl compounds bind to, 243

Rhizobium meliloti YE-2 grown under different osmolarity conditions, viscoelastic properties of exopolysaccharides from, 227

Starch from waxy rice (IR29), structure and properties during development of the grain, 235

Stereoselective route to the basic skeleton of the antibiotics papulacandin and chaetiacandin, using palladium-mediated arylation of a D-glucal derivative, 157

Structure and properties of waxy-rice (IR29) starch during development of the grain, 235

Structure of mytilan, a bioglycan-immunomodulator isolated from the mussel *Crenomytilus grayanus*, 221

Synthesis of di-O-glycosyl derivatives of methyl α -L-rhamnopyranoside, 109

Synthesis of glycosyl phosphates and azides, 169

Synthesis of methyl 3-O-(3,6-anhydro- β -D-galactopyranosyl)- α -D-galactopyranoside and methyl 3,6-anhydro-4-O- β -D-galactopyranosyl- α -D-galactopyranoside, efficient and stereoselective, 147

Synthesis of (+)-validamycin H, total, 299

β -L-Talofuranose, crystal and molecular structure of 5-azido-3-O-benzoyl-6-O-*tert*-butyldiphenylsilyl-5-deoxy-1,2-O-isopropylidene-, 271

D-Threitol, crystal structure at 119 K and 298 K, 11

Total synthesis of (+)-validamycin H, 299

Tritylation, a convenient route to polysubstituted derivatives of cyclomaltohexaose by multiple, 287

Validamycin H, total synthesis of (+)-, 299

Viscoelastic properties of exopolysaccharides from *Rhizobium meliloti* YE-2 grown under different osmolarity conditions, 227

Waxy-rice (IR29) starch, structure and properties during development of the grain, 235